Mine File
W. Hadberg

Norman H. Bangerter
Governor

Suzanne Dandoy, M.D., M.P.H.
Executive Director

ACT/045/017
#2

November 17, 1986
538-6146

Mr. Frank D. Wicks, Vice President
Barrick Mercur Gold Mines, Inc.
P. O. Box 838
Tooele, Utah 84074

RE: Golden Gate and Hillside
Sedimentation Ponds
Construction Permit

Dear Mr. Wicks:

We have reviewed the plans and specifications which were submitted for the Golden Gate and Hillside Sedimentation Ponds. They appear to be in compliance with the code of waste disposal regulations.

Therefore, a Construction Permit is hereby issued as constituted by this letter subject to the following condition:

Per phone conversation with Mr. Glenn Eurick on 27 October 1986, Barrick Mercur Gold Mine will pump the waters from the sedimentation ponds and dispose of the water in the tailings pond, if necessary, to insure adequate capacity for an impending storm event.

The Golden Gate pond consists of a 30 foot high earthen dike with a crest width of 63 feet. The compactive effort on the dike material shall be provided by loaded 85 ton truck haul traffic making repeated passes over each embankment lift. Each embankment lift shall not exceed two (2) feet in thickness. Routing of the haul traffic shall be controlled to insure that 90 per cent of standard proctor maximum density is achieved. A dewatering device will be provided which will prevent floating materials, oil and grease from being drawn off by the pump truck. The dewatering device will also be constructed to prevent any sediments from being drawn off up to the maximum elevation of the sediment storage volume. The spillway will consist of an 8 foot diameter split pipe laid on the downstream slope. This pipe will discharge into a pool, constructed of 1.5 foot minimum diameter rip rap, which shall have a geometry of 2 feet deep, 25 feet long and 12 feet wide located at the toe of the dike. The storage capacity of the pond is 90 acre-feet.

The Hillside pond consists of a 16.5 foot high dike with a crest width of 10 feet. Compaction will be obtained in the same manner as the Golden Gate pond. A dewatering device will be provided which will prevent floating materials, oil and grease from being drawn off by the pump truck. The dewatering device will also be constructed to prevent any sediments from being drawn off up to the maximum elevation of the sediment storage volume. The spillway consists of an 8 foot diameter pipe across the dike crest and an 8 foot split pipe on the downstream face. This pipe will discharge into a pool, constructed of 1.5 foot minimum diameter rip rap, which shall have a geometry of 2 feet deep, 25 feet long and 12 feet wide located at the top of the dike. The storage capacity of the pond is 13.4 acre-feet.

The pumping of water from the ponds and applying it to roads and for use as process water is allowed as long as the quality of the water does not exceed 25 mg per liter suspended solids.

Also, the sediment containment volume for each pond is adequate for 5 years of containment. However, removal of accumulated sediments should be accomplished when approximately 60 percent of the sediment volume has been used.

Both sedimentation ponds are designed to completely contain the 10 year, 24 hour storm event and safely pass the calculated 25 year runoff event.

The issuance of this construction permit does not relieve Barrick Mercur Mining from the responsibility of obtaining required permits from other appropriate agencies. This includes obtaining the approval to discharge under your NPDES permit No. UT-0023884.

Please call if there are any questions.

Sincerely,

UTAH ~~WATER~~ POLLUTION CONTROL COMMITTEE

Calvin K. Sudweeks
Executive Secretary

CGD:mw

cc: Mr. Scott M. Matheson, Parsons, Behle & Latimer
Mr. Jon C. Sprague, Barrick
Mr. Glenn M. Eurick, Barrick
Mr. John T. McDonough, Barrick
Mr. Myron Bateman, Tooele Cty. Health Dept.
Mr. Lowell Braxton, Mineral Resource & Development & Reclamation Program
Mr. Steve MeNeal

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